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DRUG USE AND DRIVING

ADDICTION RESEARCH FOUNDATION BIBLIOGRAPHIC SERIES

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DRUG USE AND DRIVING

A bibliography of the scientific literature on the effects of drugs other than ethanol on driving or simulated driving of automobiles, piloting or simulated piloting of aircraft, and driving-related mental and motor performance

Compiled by

T. H. Barnes

Assisted by

S. F. Price

R. J. Hall, Series Editor

ADDICTION RESEARCH FOUNDATION

Toronto, Ontario, Canada

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EDITOR'S PREFACE

It has been shown that a great percentage of traffic accidents per year have been caused by vehicle operators who were under the influence of alcohol or other drugs. Many articles have been written concerning the adverse effects of alcohol on motor performance, but, until recently, the use of other drugs has not received the same amount of coverage.

With the recent interest in the changing of legislation regarding cannabis, the issue of impaired driving while under the influence of drugs other than alcohol has come to the fore.

In considering the topic of drugs and driving, it was felt that an all-inclusive bibliography would entail duplication in the case of the alcohol literature, and for this reason, we have confined our scope to papers which mainly concern themselves with drugs other than alcohol.

With the 6th. International Conference on Alcohol, Drugs and Traffic Safety being held at the Addiction Research Foundation in Toronto from 8-13 of September 1974, it was felt that a bibliography of this type would be a useful and timely contribution, as it would provide an accumulation of citations to date.

As with previous bibliographies, a 4 x 6 microfiche of the entire article, including an eye-readable section, is being prepared for each of the citations. The combination of the bibliography and microfiche will provide the user with the opportunity of locating and reading the full text of chosen articles, at a moderate cost, while at the same time reducing the amount of storage space.

The development of this bibliography has demanded a concentrated effort by the compilers and other Library staff members who have participated

in its realization. Again, Mrs. B. Merritt and Mr. O. Pergl have contributed through their provision of hard copy of articles available on Inter-library Loan.

As in the case with previous bibliographies, this work could not have been completed without the cooperation of the entire Library staff. Even though they are not credited individually as having had a direct input to the bibliography, they are to be commended for relieving the compilers of duties which would have prevented or hampered the completion of this volume. At the same time, we wish to thank the staff of the Printing Unit of the A. R. F. for their cooperation and patience in the preparation of the four bibliographies produced during 1973-74.

February 1, 1974 R. J. Hall

ARF, Toronto Librarian

INTRODUCTION

I. Aim and Extent of Coverage

The aim of this bibliography is to cover comprehensively all available scientific literature, in any language, on the subject of drug use and driving. This includes experimental and clinical research studies, review articles, and general discussions of the topic. As with its predecessors in the bibliographic series, the position has been adopted that evaluation should and must rest with the reader; therefore, all scientific papers which discuss the subject have been listed.

II. Subject Content

The bibliography contains studies on the effects of drugs, other than ethyl alcohol, on: driving or simulated driving of automobiles, piloting or simulated piloting of aircraft, and laboratory tests concerning various intellectual, sensory, and psychomotor functions, personality, and subjective mental states. Papers dealing with laboratory tests have been included if the express intention is to elucidate driving ability under drug conditions; because of the wide range of possible functions involved in, but not restricted to driving, papers reporting drug-influenced performance are excluded if the results are not specifically related to the operation of a motor vehicle.

III. Types of Information Provided

A. References

Titles are listed alphabetically according to the name of the first author. The complete information for every title is given, including the number of references cited by the authors. The titles of non-English-language articles are given in the original language, followed by an English translation in square brackets. All journal titles are given in full; for the sake

of consistency, the capitalization of the titles of non-English-language journal titles has been conducted according to standard English-language practice. Journals which include in their title the name of a society or institution are listed with the organization name placed first (e. g. , Johns Hopkins Hospital, Bulletin). The name of the place of publication is listed, foreign place names being given in the English-language version.

B. Key Word Terms

Following each citation are abbreviated key word index terms which provide information such as: language of publication, type of paper (e. g. , experimental, review, etc.), vehicle type, various experimental and non-experimental subject groups, and groups of compounds mentioned in the paper in connection with driving.

C. Drug Names

The names of all relevant drugs mentioned in each paper are provided.

D. Accession Numbers

Because all papers listed in the bibliography are being transferred to microfiche so that they will be available to requesters, each bibliography term has been assigned a permanent, unique accession number (e. g. , A-1237, B-0250), whereby it can be easily identified.

E. Author Index

F. Key Word Index

The Key Word Index is a cumulated listing of all terms to which each of the 81 key word terms has been applied.

G. Drug Index for Experimental and Statistical Survey Papers

The drug index is a list of all individual drug names or drug group names mentioned in experimental and statistical survey papers. The drug names are cross-referenced according to information obtained from the following

standard works: E. E. J. Marler, Pharmacological and Chemical Synonyms, 4th ed. (Amsterdam: Excerpta Medical Foundation, 1967); M. Negwer, Organische-chemische Arzneimittel und ihre synonyma (Berlin: Akademie-Verlag, 1966); and P. G. Stecher, ed., The Merck Index, 8th ed. (Rahway, N. J.: Merck and Co., Inc., 1968). In the code used for the index, one of the letters listed below appears in parentheses after the drug name:

R -- recommended International Non-proprietary Name (W. H. O.)

P -- proposed International Non-proprietary Name (W. H. O.), British Approved Name, or United States Approved Name

C -- chemical and/or common name

N -- drug name which could not be verified in any of the above reference works

In cross-referencing, the recommended International Non-proprietary Name (R) is preferred as the standardized form, while the proposed International Name (P) is the second choice, the chemical and/or common name (C) is the third choice, and the unverified name, naturally, is fourth. The numbers of entries in the bibliography text are listed only under the most-preferred, or highest-choice drug name.

If possible, combination drugs have been verified in C. O. Wilson and J. E. Jones, eds., American Drug Index (Philadelphia: J. B. Lippincott, 1964). If a combination drug is not listed in this source, the composition has been determined from the article itself, and is given in parentheses. A plus sign (+) following the last component indicates that not all parts of the composition could be found.

IV. Abbreviations Used

A. Languages

A -- Afrikaans

C -- Czech

D -- Dutch

Da -- Danish

E -- English

F -- French

Fi -- Finnish

G -- German

H -- Hungarian

I -- Italian

J -- Japanese

N -- Norwegian

P -- Portugese

Po -- Polish

R -- Russian

Ru -- Rumanian

S -- Swedish

Se -- Serbo-Croatian

Sp -- Spanish

T -- Turkish

B. Summaries in Other Languages

All foreign-language papers with a summary in a second language are indicated, as in the examples below:

ES -- English summary

FS -- French summary

GS -- German summary

C. Key Word Term Abbreviations

Qualification of Paper

1. SEC	secondary article (article in which the space devoted to drugs--other than ethanol--and driving is a relatively small part of the whole, but the article is considered to be of sufficient worth to put into the bibliography)

Type of Paper

2. abst.	abstract only
3. exp.	experimental
4. gen.	general--no experimental or clinical research
5. review	review of literature--only applied if all or a major portion of a paper is devoted to review
6. stat. surv.	statistical study or survey

Vehicle Types

7. airplanes

8. surface vehic.	surface vehicles
9. simulators, airplanes	
10. simulators, surface vehic.	simulators--surface vehicles

Non-Experimental Studies--Subject Matter

11. accidents, airplanes	
12. accidents, surface vehic. a) fatal only b) general (fatal, non-fatal, and/or property damage)	accidents--surface vehicles
13. causation factors a) time of day b) time of week c) time of year d) community distribution--the part of the community where accidents occur (downtown, suburbs, close to home, etc.) e) road and vehicle design and modification (banking of roads, etc.) f) rural vs. urban g) other causative factors	accident causation factors (other than drug impairment)
14. countermeasures, law	countermeasures, law enforcement
15. countermeasures, education	countermeasures, public education
16. differentiation characteristics a) age b) socio-economic status c) previous driving offences d) previous criminal offences e) physical handicaps f) mental handicaps--congenital g) mental handicaps--psychological	driver differentiation characteristics
17. licensing	driver licensing
18. drug physical effects	drug effects on body or senses (vision, CNS, etc.)
19. drug psychological effects	
20. drug-ethanol interaction	drug interaction with ethanol
21. blood lev.	blood drug levels
22. other drug lev.	drug levels other than in blood
23. legal drug use	over-the-counter, by prescription, or by accidental exposure to substances

24. illegal drug use	
25. medical, physician exam	
26. medical, post-mortem	
27. medico-legal, arrest/prosec.	medico-legal aspects--arrest and/or prosecution
28. medico-legal, legislation	medico-legal aspects--legislation, juridicial decisions and definitions
29. physician responsibility	responsibility of physicians and other health sciences personnel (dentists, nurses, etc.)
30. suicides	suicides--probable, possible, or attempted

Experimental Studies--Subjects

31. humans
    a) naive (to test situation)
    b) experienced (to test situation)

32. drug-using humans
    a) chronic users
    b) non-chronic (intermittent) users
    c) legal users (by prescription)
    d) illegal users

33. psychot. humans	humans--psychotic, neurotic, or labile
34. healthy humans	humans, healthy or to whom items 32 and 33 do not apply

Experimental Studies--Types

35. road tests	
36. simulation tests	
37. lab. exp.	laboratory experiments dealing with driving performance functions

Experimental Studies--Drug Administration

38. acute admin.	acute administration
39. chronic admin.	chronic administration

Experimental Studies--Test Criteria

40. hearing

41. vision, functional	vision, functional tests
42. vision, perceptual	vision, perceptual tests
43. intellectual functions a) cognitive processing of various combined stimuli under stress conditions b) decision-making c) learning and memory	
44. mood	
45. personality inventories	personality tests--inventories
46. miscell. personality tests	personality tests--miscellaneous
47. hand steadiness	psychomotor skills--hand steadiness
48. manipulative tests	psychomotor skills--manipulative tests
49. reaction time	psychomotor skills--reaction time
50. standing steadiness	psychomotor skills--standing steadiness
51. tapping speed	psychomotor skills-- tapping speed
52. tracking	psychomotor skills--tracking
53. miscell. psychomot. skills	psychomotor skills--miscellaneous
54. sustained attention	sustained attention (concentration tests
55. subjective perform. eval.	subjective performance evaluation

Compounds Influencing Driving Performance

56. alcohols	alcohol (ethanol, trichloroethanol, etc.)
57. amphetamines	amphetamines (dexamphetamine, methamphetamine, etc.)
58. analeptics	analeptics (bemegride, meclogenoxate, etc.)
59. analg., antipyret.	analgesics and antipyretics (APC, phenacetin, etc.)
60. anesthetics	anesthetics (butamin, ether, cocaine, etc.)

61. anticonvulsants	anticonvulsants (carbamazepine, phenytoin, etc.)
62. antidepressants	antidepressants (desimipramine, prolintane, etc.)
63. anti-infectants	anti-infectants (penicillin, cycloserine, etc.)
64. antispasmodics	antispasmodics (ethyl acetate, papaverine, etc.)
65. autonomic agents	autonomic agents (parasympatholytics, parasympathomimetics, sympatholytics, sympathomimetics)
66. barbiturates	barbiturates (barbital, secobarbital, etc.)
67. coagulants, anti-coagulants	blood formation and coagulation agents, or anticoagulation agents (oxalic acid, phenprocoumon, etc.)
68. cardiovasc. agents	cardiovascular agents (digitalis, dopamine, etc.)
69. diagnost. agents	diagnostic agents (sodium benzoate, sodium iodide, etc.)
70. elect., water-bal. agents	electrolyte and water-balance agents (diuretics, ions, glucose, etc.)
71. gastrointest. agents	gastrointestinal agents (meclozine, glutamic acid, etc.)
72. hallucinogens	hallucinogens (cannabis, lysergide, etc.)
73. hormones, hormone antag.	hormones and hormone antagonists (ACTH, insulin, etc.)
74. indust. intox.	industrial intoxicants (carbon monoxide, gasoline compounds, etc.)
75. miscellaneous	miscellaneous compounds used in manufacturing, or not otherwise specified

76. musculoskel. agents	musculoskeletal agents (antirheumatics, muscle relaxants, etc.)
77. nutritive agents	nutritive agents (vitamins, etc.)
78. sed., hypnot.	sedatives and hypnotics (excluding barbiturates), such as apronal, glutethimide, etc.
79. stimulants	stimulants, excluding amphetamines (pemoline, caffeine, etc.)
80. tranquilizers	tranquilizers (chlordiazepoxide, reserpine, etc.)
81. unclass. ther. agents	unclassified therapeutic agents (disulfiram, mercury iodide, etc.)

1 Allgén, L. G., Bejerot, N., Bergsman, A., Hellström, L., and Sandberg, A.
ALKOHOL OCH DROGER I BLOD OCH URIN I 142 FALL MISSTÄNKTA FÖR RATTONYKTERHET. [ALCOHOL AND DRUGS IN THE BLOOD AND URINE OF 142 PERSONS SUSPECTED OF DRIVING WHILE INTOXICATED].
Läkartidningen (Stockholm), 70(12): 1169-1173 (0 ref.), 1973.
S-ES - stat. surv. - surface vehic. - drug-ethanol interaction - blood lev. - other drug lev. - legal drug use - illegal drug use - medico-legal, arrest/prosec. - alcohols - amphetamines - analg., antipyret. - barbiturates - sed., hypnot. - ethanol - phenmetraline - amphepramone - glutethimide - meprobamate - amitriptyline - salicylates B-3107.

2 American Medical Association, Committee on Medical Aspects of Automobile Injuries and Deaths
MEDICAL GUIDE FOR PHYSICIANS IN DETERMINING FITNESS TO DRIVE A MOTOR VEHICLE.
American Medical Association, Journal (Chicago), 169(11): 1195-1207 (1 ref.), 1959.
E - SEC - gen. - surface vehic. - drug physical effects - drug psychological effects - legal drug use - physician responsibility - alcohols - analg., antipyret. - anesthetics - anti-infectants - hallucinogens - indust. intox. - sed., hypnot. - stimulants - tranquilizers - morphine - morphine derivatives - narcotics - CNS stimulants - antihistamines - motion-sickness drugs - anti-infective agents - sulfonamides - carbon monoxide - ethanol A-1901.

3 Andréasson, R., and Bonnichsen, R.
ALKOHOL- OCH LÄKEMEDELS-BERUSNING. [INTOXICATION BY ALCOHOL AND MEDICINES].
Läkartidningen (Stockholm), 68(16): 1911-1916 (0 ref.), 1971.
S - gen. - surface vehic. - countermeasures, law - blood lev. - legal drug use - medico-legal, arrest/prosec. - medico-legal, legislation - physician responsibility - alcohols - analeptics - analg., antipyret. - anesthetics - antidepressants - anti-infectants - miscellaneous - sed., hypnot. - tranquilizers - ethanol - antihistamines B-3105.

4 Anonymous (Foreign Letters: Berlin)
EFFECTS OF ALCOHOL, COFFEE AND TOBACCO ON MOTORISTS.
American Medical Association, Journal (Chicago), 112: 1274 (0 ref.), 1939.

E - SEC - abst. - exp. - drug-ethanol interaction - blood lev. - medico-legal, arrest/prosec. - healthy humans - lab. exp. - acute admin. - reaction time - standing steadiness - alcohols - stimulants - caffeine - nicotine A- 0511.

5 Anonymous (Queries and Minor Notes)
METHYL ALCOHOL INTOXICATION.
American Medical Association, Journal (Chicago), 138(3): 253 (4 ref.), 1948.
E - gen. - surface vehic. - drug-ethanol interaction - legal drug use - medico-legal, arrest/prosec. - alcohols - analg., antipyret. - acetylsalicylic acid - methanol - ethanol A-0512.

6 Anonymous (Queries and Minor Notes)
BEER AND PENTOBARBITAL (NEMBUTAL) AND A FRACTURED SKULL.
American Medical Association, Journal (Chicago), 149: 1078 (0 ref.), 1952.
E - gen. - surface vehic. - accidents, surface vehic., fatal - drug-ethanol interaction - legal drug use - alcohols - barbiturates - ethanol - pentobarbital A-0502.

7 Anonymous
ALCOHOL AND BARBITURATES.
British Medical Journal (London), 1: 1269-1270 (11 ref.), 1953.
E - SEC - gen. - surface vehic. - drug physical effects - drug-ethanol interaction - physician responsibility - alcohols - barbiturates - ethanol A-1908.

8 Anonymous (News and Notes: Medico-Legal)
ANTIHISTAMINES AND ALCOHOL.
British Medical Journal (London), 1: 403 (0 ref.), 1954.
E - gen. - surface vehic. - accidents, surface vehic., general - drug-ethanol interaction - legal drug use - medico-legal, arrest/prosec. - alcohols - anti-infectants - ethanol - antihistamines A-0498.

9 Anonymous (Foreign Letters: England)
DRUGS AND DRIVING.
American Medical Association, Journal (Chicago), 156(6): 628-629 (0 ref.), 1954.
E - gen. - surface vehic. - accidents, surface vehic., general - drug-ethanol interaction - legal drug use - medico-legal, arrest/prosec. - alcohols - sed., hypnot. - tranquilizers - meparfynol - carbromal - chlorpromazine - ethanol A-0508.

10 Anonymous (Branch and Association News)
CHLORPROMAZINE AND ALCOHOL.
Pharmaceutical Journal (London), 121: 423 (0 ref.), 1955.
E - gen. - surface vehic. - drug-ethanol interaction - legal drug use - medico-legal, arrest/prosec. - alcohols - tranquilizers - chlorpromazine - ethanol A-0504.

11 Anonymous
ALCOHOLIC DRIVERS.
American Medical Association, Journal (Chicago), 160: 818 (0 ref.), 1956.
E - gen. - surface vehic. - drug-ethanol interaction - blood lev. - other drug lev. - legal drug use - medico-legal, arrest/prosec. - alcohols - anti-infectants - antihistamines - ethanol A-0497.

12 Anonymous
GENUSSMITTEL, MEDIKAMENTE UND VERKEHRSSICHERHEIT. [NON-MEDICINAL STIMULANTS, DRUGS, AND TRAFFIC SAFETY].
Ärztliche Mitteilungen (Cologne), 24: 811 (11 ref.), 1959.
G - gen. - surface vehic. - drug physical effects - drug-ethanol interaction - physician responsibility - analeptics - analg., antipyret. - barbiturates - sed., hypnot. - neuroleptics - pyrazolone - phenacetin - isonicotinic acid hydrazide - miscellaneous A-1861.

13 Anonymous (Panel on Interpretation and Medical Aspects)
QUESTIONS AND ANSWERS. [ANSWERS TO A QUESTION CONCERNING TRANQUILIZERS].
In: Myren, R. A., ed. Proceedings of the symposium on alcohol and road traffic. Held at Indiana University, December 12-14, 1958. Bloomington, Indiana: Indiana University Press, pp. 224-227 (0 ref.), 1959.
E - gen. - surface vehic. - drug-ethanol interaction - blood lev. - other drug lev. - legal drug use - alcohols - amphetamines - tranquilizers - benzedrine - ethanol A-0516.

14 Anonymous (Any Questions?)
DRINK AND DRUGS.
British Medical Journal (London), 1: 1555 (2 ref.), 1961.
E - gen. - surface vehic. - drug-ethanol interaction - legal drug use - medico-legal, arrest/prosec. - alcohols - amphetamines - autonomic agents - barbiturates - stimulants - ephedrine - caffeine - ethanol A-0506.

15 Anonymous
DANGER: DRIVING WHILE DRUGGED.
Family Safety (Chicago), 22(3): 21-22 (0 ref.), 1963.
E - gen. - surface vehic. - drug physical effects - drug-ethanol interaction - legal drug use - analg. , antipyret. - anti-infectants - sed. , hypnot. - stimulants - tranquilizers - unclass. ther. agents - antihistamines - anti-motion sickness agents - CNS stimulants A-1863.

16 Anonymous
WAS IT DRUNKEN DRIVING OR CARBON MONOXIDE POISONING?
American Medical Association, Journal (Chicago), 186(3): 34 (0 ref.), 1963.
E - gen. - surface vehic. - causation factors, vehicle design/ inadequate maintenance - drug-ethanol interaction - indust. intox. - carbon monoxide A-1864.

17 Anonymous (Any Questions?)
DRUGS, DRINK, AND DRIVING.
British Medical Journal (London), 2: 740 (0 ref.), 1964.
E - gen. - surface vehic. - drug-ethanol interaction - legal drug use - physician responsibility - alcohols - tranquilizers - ethanol - chlorpromazine - haloperidol A-0509.

18 Anonymous
COURT ERRS IN USING ADDICTION TEST, DRUG USER MOTORIST GIVEN NEW TRIAL.
Medical Tribune (New York), 6: 31 (1 ref.), 1965.
E - gen. - surface vehic. - legal drug use - medico-legal, arrest/ prosec. - hallucinogens - unclass. ther. agents - morphine - methadone B-3091.

19 Anonymous
DRUGS AND DRIVING.
Traffic Laws Commentary (Washington), No. 65-1: 1-17, (97 ref.), 1965.
E - gen. - surface vehic. - countermeasures, law - drug-ethanol interaction - medico-legal, arrest/prosec. - analeptics - anti-infectants - barbiturates - hallucinogens - sed. , hypnot. - tranquilizers - narcotics - morphine - cocaine - marihuana - antihistamines - miscellaneous B-0284.

20 Anonymous
DRIVING UNDER THE INFLUENCE OF ALCOHOL OR DRUGS.
Evanston, Ill. : Northwestern University Traffic Institute, Traffic Law Offenses Series, P. N. 2071, 16 pp. (8 ref.), 1966.
E - gen. - surface vehic. - countermeasures, law - drug physical effects - drug-ethanol interaction - legal drug use - illegal drug use - medico-legal, arrest/prosec. - alcohols - amphetamines - anti-infectants - barbiturates - hallucinogens - tranquilizers - ethanol - narcotics - antihistamines B-3046.

21 Anonymous
DRUGS AND AUTO ACCIDENTS.
Medical Letter on Drugs and Therapeutics (New York), 8(14): 53-54 (2 ref.), 1966.
E - gen. - surface vehic. - drug physical effects - legal drug use - physician responsibility - amphetamines - barbiturates - sed. , hypnot. - tranquilizers B-3025.

22 Anonymous (News and Notes: Medico-Legal)
DRUGS, DRINKING, AND DRIVING.
British Medical Journal (London), 2: 776 (0 ref.), 1967.
E - gen. - surface vehic. - drug-ethanol interaction - legal drug use - medico-legal, arrest/prosec. - physician responsibility - alcohols - barbiturates - ethanol B-0241.

23 Anonymous
ALKOHOL UND MEDIKAMENTE. [ALCOHOL AND DRUGS].
Blutalkohol (Hamburg), 5: 360-361 (0 ref.), 1968.
G - gen. - surface vehic. - drug physical effects - drug-ethanol interaction - alcohols - sed. , hypnot. - tranquilizers - chlordiazepoxide - meprobamate - phenobarbital - methyprylone - ethanol B-2629.

24 Anonymous
AMPHETAMINES AND DRIVING.
Bulletin on Narcotics (Lake Success, N. Y.), 21(1): 46 (1 ref.), 1969.
E - gen. - surface vehic. - drug physical effects - legal drug use - illegal drug use - amphetamines B-2338.

25 Anonymous
EFFECTS OF MARIHUANA AND ALCOHOL ON SIMULATED DRIVING PERFORMANCE.
Medical Journal of Australia (Sydney), 2(15): 732 (3 ref.), 1969.

E - review - simulators, surface vehic. - drug physical effects - alcohols - hallucinogens - marihuana - ethanol B-2318.

26 Anonymous
NEW LEGISLATION IN SPAIN: DRIVING UNDER THE INFLUENCE OF NARCOTICS.
Bulletin on Narcotics (Lake Success, N. Y.), 21(1): 20 (0 ref.) (0 ref.), 1969.
E - gen. - surface vehic. - countermeasures, law - illegal drug use - hallucinogens - narcotics - LSD-25 - mescaline - psilocybin B-3026.

27 Anonymous
REDUCING HIGHWAY SLAUGHTER.
Medical World News (New York), 10(35): 22-26, 28-29 (0 ref.), 1969.
E - SEC - gen. - accidents, surface vehic. - countermeasures, law - countermeasures, education - physician responsibility - suicides - alcohols - amphetamines - analg. , antipyret. - anticonvulsants - antidepressants - anti-infectants - barbiturates - musculoskel. agents - tranquilizers - antihistamines - ganglionic-blocking agents - muscle relaxants - antibiotics - ethanol B-3065.

28 Anonymous
HEROIN ADDICT'S "LIFE OF CRIME" MAY BEGIN IN DRIVER'S SEAT.
S. A. E. Journal of Automotive Engineering (New York), 79(3): 41-42 (1 ref.), 1971.
E - stat. surv. - accidents, surface vehic. - differentiation characteristics, number of previous convictions/severity of previous violations/severity of first violation/sex/type of license - hallucinogens - heroin B-0804.

29 Anonymous
VERKEHRSGEFÄHRDUNG DURCH RAUSCHMITTELSUCHT. [TRAFFIC HAZARD DUE TO DRUG ADDICTION].
Deutsche Medizinische Wochenschrift (Stuttgart), 96(23): 1027 (1 ref.), 1971.
G - SEC - review - surface vehic. - drug physical effects - illegal drug use - hallucinogens B-3035.

30 Anonymous
CANNABIS AND DRIVING SKILLS.
Canadian Medical Association Journal (Toronto), 107: 269-270

(7 ref.), 1972.
E - review - surface vehic. - drug physical effects - hallucinogens - cannabis B-2628.

31 Anonymous
DRIVING INCOMPATIBLE WITH MARIJUANA.
American Medical Association, Journal (Chicago), 220(1): 139
(0 ref.), 1972.
E - gen. - surface vehic. - drug physical effects - hallucinogens - marihuana B-2627.

32 Anonymous
THE EFFECTS OF CARBON MONOXIDE ON DRIVING PERFORMANCE.
Eye, Ear, Nose, and Throat Monthly (Chicago), 52(4): 141
(1 ref.), 1973.
E - gen. - surface vehic. - drug physical effects - indust. intox. - carbon monoxide B-3075.

33 Auerbach, T.
ÜBER DEN EINFLUSS VON MEDIKAMENTEN AUF DIE VERKEHRSSICHERHEIT BEI KRAFTFAHRERN. [THE EFFECTS OF DRUGS ON DRIVER TRAFFIC SAFETY].
Zeitschrift für Ärztliche Fortbildung (Jena), 58: 681-686
(21 ref.), 1965.
G - gen. - surface vehic. - drug physical effects - drug-ethanol interaction - alcohols - analeptics - analg., antipyret. - anesthetics - antidepressants - barbiturates - tranquilizers - ethanol - hypotensives - neuroleptics A-1906.

34 Babst, D. V., Inciardi, J. I., Raeder, P. K., Jr., and Negri, D. B.
DRIVING RECORDS OF HEROIN ADDICTS.
In: Committee on problems of drug dependence, 1970. Report of the Thirty-Second Meeting, February 16, 17, and 18, in Washington. Washington: National Academy of Sciences-National Research Council, Division of Medical Sciences, pp. 6514-6522
(6 ref.), 1970.
E - stat. surv. - accidents, surface vehic. - countermeasures, law - differentiation characteristics, age/sex/severity of violations/recency of violations/type of license/county of residence - illegal drug use - medico-legal, arrest/prosec. - medico-legal, legislation - hallucinogens - heroin B-0612.

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drug-ethanol interaction - legal drug use - physician responsibility - alcohols - anesthetics - antidepressants - anti-infectants - barbiturates - sed., hypnot. - stimulants - tranquilizers - antihistamines - CNS stimulants - antibiotics - ethanol B-2633.

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antitussives - anti-asthmatics - antihistamines - anthelmintics - antidiabetic agents - ethanol A-1023.

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agents - hallucinogens - hormones, hormone antag. - sed., hypnot. - tranquilizers - unclass. ther. agents - antirheumatics - narcotics - antibiotics - sulfonamides - antitussives - anti-astmatics - antihistamines - antidiabetic agents - tuberculostatics - ethanol - miscellaneous B-3106.

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38, 42, 44, 45, 46, 47, 62, 74, 75, 85, 93a, 96, 114, 122, 132, 138, 147, 148, 149, 150, 151, 152, 153, 155, 171, 172, 173, 182, 183, 185, 189, 191, 198, 201, 205, 207, 238, 240, 252, 270, 277, 281, 286, 291, 292, 304, 317, 318, 324

54. **sustained attention** sustained attention (concentration) tests
42, 44, 45, 46, 47, 48, 49, 59, 60, 61, 71, 86, 90, 153, 155, 156, 157, 160, 182, 184, 186, 197, 211, 242, 276, 277, 281, 287, 317

55. **subjective perform. eval.** subjective performance evaluation
42, 44, 45, 46, 47, 85, 90, 93a, 96, 114, 122, 138, 152, 155, 156, 157, 180, 181, 182, 183, 185, 207, 211, 276, 277, 281, 325

COMPOUNDS INFLUENCING DRIVING PERFORMANCE

56. **alcohols** alcohols (ethanol, trichloroethanol, etc.)
1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 13, 14, 17, 20, 22, 23, 25, 27, 33, 38, 39, 42, 48, 49, 50, 54, 55, 56, 57, 58, 59, 60, 61, 62, 64, 65, 66, 67, 71, 74, 75, 78, 81, 82, 83, 85, 86, 87, 88, 92, 93, 95, 96, 97, 98, 100, 101, 102, 103, 104, 106, 109, 112, 114, 117, 118, 120, 121, 123, 125, 127, 128, 129, 130, 132, 133, 134, 135, 136, 138, 139, 143, 144, 145, 146, 147, 148, 149, 150, 151, 158, 160, 161, 166, 167, 170, 171, 172, 173, 174, 175, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 191, 192, 193, 199, 200, 201, 203, 204, 205, 206, 208, 209, 210, 211, 212, 213, 215, 217, 218, 221, 222, 223, 228, 229, 231, 232, 233, 234, 235, 237, 238, 240, 241, 242, 244, 245, 246, 248, 249, 250, 251, 252, 257, 259, 262, 268, 269, 270, 271, 272, 273, 274, 275, 277, 278, 279, 280, 283, 284, 285, 286, 288, 289, 291, 292, 293, 297, 299, 301, 302, 305, 307, 308, 309, 310, 311, 315, 316, 320, 322, 325

57. **amphetamines** amphetamines (dexamphetamine, methamphetamine, etc.)
1, 13, 14, 20, 21, 24, 27, 43, 55, 59, 60, 61, 69, 73, 77, 81, 83, 97, 102, 103, 103, 106, 124, 136, 139, 140, 143, 160, 166, 167, 176, 177, 197, 214, 217, 243, 244, 255, 256, 257, 261, 263, 269, 270, 279, 280, 285, 289, 290, 296, 301, 307, 321, 323,

58. **analeptics** analeptics (bemegride, meclogenoxate, etc.)
3, 12, 19, 33, 37, 65, 66, 84, 88, 106, 109, 120, 123, 127, 142, 146, 179, 182, 195, 202, 221, 248, 250, 259, 262, 272, 273, 284, 285, 288, 298, 299, 310, 311, 316

59. **analg., antipyret.** analgesics and antipyretics (APC, phenacetin, etc.)
1, 2, 3, 5, 12, 15, 27, 33, 37, 39, 40, 50, 57, 58, 64, 81, 83, 89, 95, 100, 101, 117, 121, 128, 133, 139, 140, 141, 143, 144, 145, 146, 160, 168, 169, 176, 179, 188, 194, 195, 199, 202, 206, 210, 213, 214, 227, 244, 245, 248, 249, 250, 258, 262, 269, 272, 273, 275, 284, 289, 298, 299, 301, 302, 307, 309, 310, 311, 315, 316, 320

60. **anesthetics** anesthetics (butamin, ether, cocaine, etc.)
2, 3, 33, 39, 40, 49, 64, 76, 87, 88, 100, 109, 116, 120, 128, 140, 146, 157, 161, 169, 174, 175, 176, 179, 195, 208, 209, 249, 272, 273, 275, 284, 285, 309, 311, 320

61. **anticonvulsants** anticonvulsants (carbamazepine, phenytoin, etc.)
27, 58, 65, 167, 193, 195, 222, 223, 272, 275, 284, 303, 322

62. **antidepressants** antidepressants (desimipramine, prolintane, etc.)
3, 27, 33, 66, 83, 88, 120, 121, 127, 129, 142, 143, 146, 165, 168, 171, 173, 174, 175, 179, 182, 195, 203, 204, 206, 210, 218, 240, 244, 248, 250, 254, 259, 262, 278, 283, 285, 298, 305, 308, 310

63. **anti-infectants** anti-infectants (penicillin, cycloserine, etc.)
2, 3, 8, 11, 15, 19, 20, 27, 37, 39, 46, 60, 61, 64, 65, 66, 68, 76, 81, 83, 84, 89, 92, 95, 100, 101, 102, 103, 106, 112, 113, 120, 123, 128, 129, 130, 132, 139, 141, 143, 144, 145, 146, 161, 168, 172, 174, 175, 179, 180, 182, 186, 193, 194, 195, 199, 200, 202, 206, 208, 209, 210, 217, 223, 244, 247, 248, 249, 250, 255, 256, 257, 262, 269, 272, 273, 275, 283, 285, 288, 297, 298, 303, 304, 308, 310, 311, 316, 320, 322

64. **antispasmodics** antispasmodics (ethyl acetate, papaverine, etc.)
39, 64, 76, 82, 89, 100, 113, 120, 146, 161, 217, 248, 272, 273, 275, 285

65. **autonomic agents** autonomic agents (parasympatholytics, parasympathomimetics, sympatholytics, sympathomimetics)
14, 167, 186, 251, 281

66. **barbiturates** barbiturates (barbital, secobarbital etc.)
1, 6, 7, 12, 14, 19, 20, 21, 22, 27, 33, 40, 42, 49, 50, 54, 58, 65, 66, 73, 83, 85, 88, 93, 95, 102, 103, 106, 109, 118, 121, 123, 127, 128, 129, 130, 138, 139, 143, 146, 160, 166, 168, 169, 174, 175, 176, 179, 190, 191, 193, 201, 203, 206, 208, 209, 213, 215, 217, 222, 223, 229, 234, 235, 244, 247, 249, 250, 251, 255, 256, 257, 259, 278, 279, 280, 283, 285, 288, 289, 296, 297, 308, 309, 314, 315, 316, 321

67. **coagulants, anti-coagulants** blood formation and coagulation agents, or anti-coagulation agents (oxalic acid, phenprocoumon, etc.)
89, 100, 101, 179, 193

68. **cardiovasc. agents** cardiovascular agents (digitalis, dopamine, etc.)
102, 103, 117, 144, 193, 195, 223, 262, 269, 298, 302, 303, 310, 322

69. **diagnost. agents** diagnostic agents (sodium benzoate, sodium iodide, etc.)
243, 298

70. **elect., water-bal. agents** electrolyte and water-balance agents (diuretics, ions, glucose, etc.)
64, 95, 100, 101, 193, 275

71. **gastrointest. agents** gastrointestinal agents (meclozine, glutamic acid, etc.)
144, 157, 160, 183, 186, 269, 291, 292, 303, 304, 321

72. **hallucinogens** hallucinogens (cannabis, lysergide, etc.)
2, 18, 19, 20, 25, 26, 28, 29, 30, 31, 34, 37, 38, 39, 43, 49, 50, 66, 71, 73, 74, 75, 79, 84, 88, 100, 104, 106, 109, 124, 135, 136, 141, 142, 146, 152, 153, 159, 160, 169, 176, 194, 202, 208, 209, 212, 217, 218, 221, 223, 234, 243, 252, 255, 256, 257, 259, 262, 269, 296, 297, 300, 303, 307, 311, 314, 316, 321, 322, 323

73. **hormones, hormone antag.** hormones and hormone antagonists (ACTH, insulin, etc.)
41, 64, 65, 89, 100, 101, 117, 141, 176, 179, 182, 195, 213, 214, 216, 217, 223, 224, 225, 226, 249, 262, 269, 272, 275, 285, 298, 299, 310, 316

74. **indust. intox.** industrial intoxicants (carbon monoxide, gasoline compounds, etc.)
2, 16, 32, 48, 49, 70, 78, 82, 83, 94, 97, 106, 123, 139, 208, 209, 215, 267, 269, 271, 283, 289, 316, 318, 322

75. **miscellaneous** miscellaneous compounds used in manufacturing, or not otherwise specified
3, 52, 125, 169, 206, 230, 265, 277, 310, 312

76. **musculoskel. agents** musculoskeletal agents (antirheumatics, muscle relaxants, etc.)
27, 76, 78, 81, 83, 89, 120, 146, 161, 186, 201, 206, 273, 275, 298

77. **nutritive agents** nutritive agents (vitamins etc.)
60, 61, 64, 100, 101, 167, 213, 243, 301

78. **sed., hypnot.** sedatives and hypnotics (excluding barbiturates), such as apronal, glutethimide, etc.)
1, 2, 3, 9, 12, 15, 19, 21, 23, 37, 39, 43, 53, 57, 60, 61, 64, 66, 76, 78, 81, 82, 83, 84, 88, 100, 104, 107, 108, 113, 117, 120, 121, 122, 127, 128, 129, 130, 136, 141, 143, 144, 145, 146, 149, 150, 160, 161, 174, 175, 176, 178, 179, 182, 186, 188, 189, 193, 195, 197, 198, 199, 200, 201, 202, 204, 206, 208, 210, 218, 221, 222, 223, 235, 243, 244, 245, 246, 247, 248, 249, 250, 251, 254, 258, 259, 262, 272, 273, 274, 275, 284, 285, 286, 289, 293, 297, 298, 299, 301, 302, 303, 307, 308, 310, 311, 315, 316, 320, 322, 324

79. **stimulants** stimulants, excluding amphetamines (pemoline, caffeine, etc.)
2, 4, 14, 15, 49, 51, 60, 61, 64, 76, 78, 96, 97, 100, 101, 103, 104, 113, 117, 129, 130, 138, 141, 143, 145, 156, 160, 161, 162, 167, 168, 169, 174, 175, 177, 186, 187, 192, 193, 200, 204, 206, 208, 209, 210, 211, 213, 214, 218, 222, 243, 261, 270, 275, 296, 301, 305, 310, 314, 320

80. **tranquilizers** tranquilizers (chlordiazepoxide, reserpine, etc.)
2, 3, 9, 10, 13, 15, 17, 19, 20, 21, 23, 27, 33, 36, 37, 39, 42, 43, 45, 53, 56, 57, 60, 61, 62, 64, 65, 66, 67, 76, 81, 82, 83, 84, 86, 88, 90, 92, 93a, 99, 100, 101, 102, 103, 104, 106, 109, 112, 113, 117, 118, 120, 121, 123, 128, 129, 130, 131, 136, 139, 140, 141, 142, 143, 145, 146, 147, 148, 149, 150, 151, 158, 160, 161, 162, 165, 168, 169, 170, 174, 175, 176, 178, 179, 181, 182, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 199, 200, 201, 202, 203, 204, 205, 206, 208, 210, 215, 217, 218, 221, 222, 223, 228, 232, 237, 242, 243, 246, 247, 248, 250, 251, 254, 255, 256, 257, 259, 260, 262, 268, 272, 273, 274, 275, 278, 279, 280, 283, 284, 285, 288, 289, 296, 297, 299, 301, 303, 305, 308, 309, 310, 311, 314, 315, 316, 320, 325

81. **unclass. ther. agents** unclassified therapeutic agents (disulfiram, mercury iodide, etc.)
15, 18, 37, 39, 50, 53, 66, 68, 76, 81, 83, 98, 100, 117, 134, 143, 160, 163, 167, 188, 193, 202, 207, 210, 231, 233, 241, 248, 250, 262, 272, 273, 275, 276, 278, 285, 298, 311, 315, 317

DRUG INDEX

Only those drugs are listed which appear in experimental papers and statistical surveys. Some overlap of specific and group names has been unavoidable. Although the names of specific drugs were preferred for listing, drug group names also appear, owing to their use in the statistical surveys.

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